

LIGHTWEIGHT BALLISTIC RESISTANT RIGID STRUCTURAL PANEL

ABSTRACT OF THE DISCLOSURE

5 A lightweight ballistic resistant rigid structural panel especially for use in aircraft interiors is disclosed. The rigid structural panel is made up of a core layer including a plurality of sheets of flexible, high-tensile strength fabric interleaved with a plurality of sheets of a thermal-fusible film adhesive, and a sheet of cushioning material adhered to the plurality of sheets of flexible, high-tensile strength fabric. Fiber-reinforced face skins are adhered to exterior surfaces of the panel core for structural strength and rigidity. The rigid structural panel is capable of resisting ballistic attack from handguns and like weapons, while maintaining a high degree of strength and rigidity.

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